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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,334	04/01/2004	Gregory Plos	05725.1307-00000	5349	
22852	7590 03/27/2006		EXAMINER		
FINNEGAN,	, HENDERSON, FARA	ELHILO, EISA B			
LLP 901 NEW YO	RK AVENUE, NW	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20001-4413			1751		
			DATE MAILED: 03/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	. At	oplicant(s)				
Office Action Summary		10/814,334	PL	OS ET AL.				
		Examiner	Ar	t Unit				
		Eisa B. Elhilo	17	751				
Period fo	The MAILING DATE of this communicator Reply	tion appears on the cove	er sheet with the corre	espondence address	S			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this community of period for reply is specified above, the maximum statutoure to reply within the set or extended period for reply will, reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS C 7 CFR 1.136(a). In no event, how action. Bry period will apply and will expire by statute, cause the application	OMMUNICATION. wever, may a reply be timely f e SIX (6) MONTHS from the r to become ABANDONED (3	filed mailing date of this commun 5 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed of	on <u>01 April 2004</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)		nal.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice	under <i>Ex parte Quayl</i> e,	1935 C.D. 11, 453 ().G. 213.				
Disposit	ion of Claims							
4)🖂	Claim(s) 1-54 is/are pending in the app	lication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[S) Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-5,8-46 and 49-54</u> is/are rejected.							
-	Claim(s) 6,7,47 and 48 is/are objected							
8)[Claim(s) are subject to restriction	n and/or election requir	ement.					
Applicat	ion Papers							
9)[The specification is objected to by the E	xaminer.						
10)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ ol	ojected to by the Exa	miner.				
	Applicant may not request that any objection	n to the drawing(s) be hel	d in abeyance. See 37	' CFR 1.85(a).				
	Replacement drawing sheet(s) including the							
11)	The oath or declaration is objected to by	y the Examiner. Note th	e attached Office Ac	tion or form PTO-1	52.			
Priority :	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa	cuments have been rec cuments have been rec the priority documents I I Bureau (PCT Rule 17.	ceived. ceived in Application nave been received i 2(a)).	No	je			
2) Notion Notion Notion Notion Notion	n t(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO rmation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date <u>9/17/2004</u> .	9-948) O/SB/08) 5) [Interview Summary (PT Paper No(s)/Mail Date. Notice of Informal Pater Other:	·	:)			

Claims 1-54 are pending in this application.

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 8-17, 23-46 and 50-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsunaga et al. (US 2001/0054206 A1) in view of Cauwet et al. (US 6,375,958 B1).

Matsunaga et al. (US' 206 A1) teaches a hair dyeing composition comprising a fluorescent of azomethine compound of a formula (2) as claimed in claims 1, 4, 5 and 34 (see page 1, formula (2)), wherein the fluorescent compound is presented in the composition in the amounts of 0.01 to 20%, 0.05 to 10% or 0.1 to 5% as claimed in claims 8-10 (see pages 2-3, paragraph, 0016), anionic surfactants in the amount of 2% as claimed in claims 16-17 (see page 3, paragraph, 0025 and page 5, Example 13), para-phenylenediamine as an oxidation base in the amount of 0.5 to 10% by weight as claimed in claims 23-25 (see page 3, paragraph, 0020 and paragraph, 0022), m-phenylenediamine as a coupler in the amount of 0.5 to 10% as claimed in claims 26-28 (see page 3, paragrapgs, 0021 and 0022), oxidizing agent of hydrogen peroxide, perborates and laccase (four electron oxidoreductase) enzyme as claimed in claims 29-33 (see page 3, paragraphs, 0018-0019). Matsunaga et al. (US' 206 A1) also teaches a process for dyeing

hair comprising applying to the hair the dyeing composition as described above and wherein the dyeing composition is applied to the hair after mixing with the oxidizing composition as claimed in claims 35-36, 40, 42 and 45-46 (see page 3, paragraphs, 0026 and 0027). Matsunaga et al. (US' 206 A1) further teaches a discloses a multi-compartment device for dyeing hair as claimed in claim 41 (see page 3,paragraph, 0026).

The instant claims differ from the reference by reciting a composition comprising at least one conditioning polymer chosen from polyorganosiloxanes which do not bear an amine group.

However, Matsunaga et al. (US' 206 A1) suggests the use of natural or synthetic polymers in the hair dyeing composition (see page 3, paragraph, 0025).

Cauwet et al. (US' 958 B1) in analogous art of hair dyeing formulation, teaches a composition comprising organopolysiloxane resin and silicone containing polyethyleneoxy and/or polypropyleneoxy groups as claimed in claims 1 and 11-13 (see col. 4, lines 20-67 and col. 5, lines 1-4), wherein the silicones are used in the composition in the amount of 0.01 to 20% as claimed in claims 14-15 (see col. 5, lines 59-60).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of Matsunaga (US' 206 A1) by incorporating the polymers of polyorganosiloxanes as taught by Cauwet et al. (US' 958 B1) to make such a composition. Such a modification would be obvious because the primary reference of Matsunaga et al. (US' 206 A1) suggests the use of natural or synthetic polymers in the dyeing composition (see page, 3, paragraph, 0025). Cauwet et al. (US' 958 B1) as a secondary reference clearly teaches and discloses the claimed polymers of the polyorganosiloxanes, and, thus, a person of the ordinary skill in the art would be motivated to

incorporate polyorganosiloxane polymers as taught by Cauwet et al. (US' 958 B1) in the dyeing composition of Matsunaga (US' 206 A1) with a reasonable expectation of success for improving the dyeing properties of the composition and would expect such a composition to have similar properties to those claimed, absent unexpected results.

- With respect to claims 2-3, 37-39, 43-44 and 50-54, it would have been obvious to one having ordinary skill in the art at the time the invention was made to formulate a dyeing composition comprising a fluorescent dye that provides maximum reflectance as claimed and wherein the composition can be applied to skin or different type of hair as claimed because the combined references of Matsunaga et al. and Cauwet et al., teach and disclose the claimed components of fluorescent dye and polyorganosiloxane polymers, and thus, a person of the ordinary skill in the art would expect such a composition to have similar properties physical properties including reflectance and wherein the composition can be applied to different hair types as claimed, absent unexpected results.
- Claims 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsunaga et al. (US 2001/0054206 A1) in view of Cauwet et al. (US 6,375,958 B1) and further in view of Vandenbossche et al. (US 6,391,062 B1).

The disclosures of Matsunaga et al. (US' 206 A1) and Cauwet et al. (US' 958 B1) as described above, do not teach or disclose the claimed species of the direct dyes.

However, Matsunaga et al. (US' 206 A1) suggests the use of other direct dyes in the keratin fiber formulation (see page, 2, paragraph, 0015).

Vandenbossche et al. (US' 062 B1) in other analogous art of keratin fibers dyeing formulation, teaches a composition comprising direct dyes such as nitrobenzene and

anthraquinone dyes in the amounts of 0.5 to 10% which overlapped with the claimed ranges as claimed in claims 18-21 (see col. 7, lines 62-67 and col. 8, lines 1-3).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of Matsunaga (US' 206 A1) by incorporating the direct dyes of nitrobenzenes and anthraquinones as taught by Vandenbossche et al. (US' 062 B1) to make such a composition. Such a modification would be obvious because the primary reference of Matsunaga et al. (US' 209 A1) suggests the use of direct dyes in the dyeing composition (see page 2, paragraph, 0015). Vandenbossche et al. (US' 062 B1) as a secondary reference clearly teaches and discloses direct dyes of the claimed species nitrobenzene and anthraquinone dyes to broaden the range of shades and to obtain varied shades (see col. 7, lines 59-65), and, thus, a person of the ordinary skill in the art would be motivated to incorporate the direct dyes as taught by Vandenbossche et al. (US' 062 B1) in the dyeing composition of Matsunaga (US' 206 A1) with a reasonable expectation of success for obtaining varied shades and would expect such a composition to have similar properties to those claimed, absent unexpected results.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsunaga et al. (US 2001/0054206 A1) in view of Cauwet et al. (US 6,375,958 B1) and further in view of Giuseppe et al. (US 5,744,127).

The disclosures of Matsunaga (US' 206 A1) and Cauwet et al. (US' 958 B1) as described above, do not teach or disclose dyeing compositions in forms of dyeing shampoos as claimed.

However, Matsunaga et al. (US' 206 A1) clearly teaches that no particular limitation is imposed on the form of the hair dyeing composition (see page 3, paragraph, 0027).

Giuseppe et al. (US' 127) in other analogous art of hair treating formulation, teaches a composition formulated as a hair shampoo and hair dyeing as well (see col. 6, lines 5-6).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the tine the invention was made would be modified to formulate the dyeing composition of Matsunaga et al. in a shampoo form at taught by Giuseppe et al. to arrive at the claimed composition. Such a modification would be obvious because Giuseppe et al. clearly teaches that the dyeing composition can be formulated in a shampoo form, and, thus, one having ordinary skill in the art would be motivated to formulate the dyeing composition in any form including the shampoo form, and would expect such a composition to have similar properties to those claimed, absent unexpected results.

Claim 49 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsunaga et al. (US 2001/0054206 A1) in view of Cauwet et al. (US 6,375,958 B1) and further in view of Rondeau (US 6,436,153 B2).

The disclosures of Matsunaga et al. (US' 206 A1) and Cauwet et al. (US' 958 B1) as described above, do not teach or disclose the fluorescent compound of the claimed formula (F4) in which X- is an anion chosen from the claimed radicals.

However, Matsunaga et al. (US' 206 A1) suggests that other direct (fluorescent) dyes may be used in the dyeing composition (see page 2, paragraphs, 0014 and 0015).

Rondeau (US' 153 B2) in analogous art of hair dyeing formulation, teaches a composition comprising a fluorescent dye having a formula similar to the claimed formula (F4), col. 7, formula 14).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of Matsunaga (US' 206 A1) by incorporating the fluorescent dyes as taught by Rondeau (US' 153 B2) to make such a composition. Such a modification would be obvious because the primary reference of Matsunaga et al. (US' 206 A1) suggests the use of fluorescent dyes in the dyeing composition (see page 2, paragraph, 0014). Rondeau (US' 153 B2) as a secondary reference clearly teaches and discloses the fluorescent compound of the claimed species, and, thus, a person of the ordinary skill in the art would be motivated to incorporate the fluorescent compound of the claimed species as taught by Rondeau (US' 153 B2) in the dyeing composition of Matsunaga (US' 206 A1) with a reasonable expectation of success for improving the dyeing properties of the composition and would expect such a composition to have similar properties to those claimed, absent unexpected results.

Allowable Subject Matter

Claims 6-7 and 47-48 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record do not teach or disclose a hair dyeing composition comprising fluorescent of the claimed formula (F3).

Conclusion

The references listed on from PTO-1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Eisa B. Elhilo whose telephone number is (571) 272-1315. The examiner can normally be reached on M - F (8:00 -5:30) with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on (571) 272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eisa Elhilo Primary Examiner

Zisa Sello

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March 17, 2006